

VEHICLE AND NONLINEAR CONTROL METHOD FOR VEHICLE

Abstract

A method for controlling a vehicle using a nonlinear error-based control is provided. Various vehicle speed requests are arbitrated and a transfer function including an integrator is applied to the winner of the arbitration. The integrator is applied regardless of the winner of the arbitration, and it is the only integrator used in the control method. This provides an advantage over methods and systems that require resetting or switching among integrators.